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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/717,466	RAMILLON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Elias Desta	2857	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to May 04, 2005.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on 04 May 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☒ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|---|

## Detailed Action

### Response to Applicant's Remark

#### Drawing

1. The Examiner accepts the drawing changes filed on May 4, 2005.

#### Specification

2. The Examiner accepts the amendment to the specification that corrects typographical and grammatical errors noted in the previous office action.

#### Terminal Disclaimer

3. The terminal disclaimer filed on May 4, 2005 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of Application Number 10/368,535 has been reviewed and is accepted. The terminal disclaimer has been recorded.

#### Allowance

4. Claims 1-14 are allowed. The following is an examiner's statement of reasons for allowance:

In reference to claims 1 and 7: DiMaggio et al. (U.S. PAP 2003/0028332) teaches a rocket engine gear defect monitoring method (see DiMaggio et al., Fig. 1 and abstract). The parameters used to monitor the nature of the engine under test

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is conducted in relation to other test engines and collected data; then measurements acquired during ground testing of a rocket engine are preferably converted into a parameter that is indicative of anomalous behavior of the mechanical system (see DiMaggio et al., page 2, paragraph 19). However, DiMaggio et al. uses tachometer measurement rather than the spectrum of distinct noise signals.

Whereas the claimed invention provides a system for identifying a signal source in a predetermined space, including a plurality of sensing units arranged at different locations of the predetermined space to detect signals in the predetermined space. At least one recording unit is connected to the sensing unit and arranged to separately and simultaneously record a detected signal at each of the sensing units that detects the signal. Further, a processing unit is configured to receive signal recordings from a recording unit which includes a first storage area configured to store a set of identified signatures corresponding to a plurality of signal sources in the predetermined space and a second storage area configured to store parameters related to the conditions under which the recordings of the signal are an identifying unit. The identifying unit is configured to determine a spectrum of the recorded signal; detect a line emerging from background noise of the spectrum by using a predetermined emergence threshold; compare the line with some or all of the signatures included in the set of identified signatures; select at least one signature corresponding to the line to create at least one signature/line pair and identify a source of the signal based on the created signature/line pair.

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The remaining claims are dependent upon claims 1 and 7 and contain further limitations.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

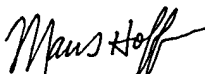
### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Thu (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)-272-1750.

Elias Desta  
Examiner  
Art Unit 2857

  
MARC S. HOFF  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800